Detection of Vimentin in Formalin-Fixed, Paraffin-Embedded Mouse and Rat Tissue

Reagent and Antibody Information

1X Wash Buffer
3% Hydrogen Peroxide
1% BSA Diluent
1X Citrate Buffer
DAB Chromagen
Hematoxylin

Blocking Serum: Normal Donkey Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 017-000-011

Avidin / Biotin Blocking Kit Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # SP-2001

Primary Antibody: Rabbit Polyclonal To Vimentin Antibody
Novus Biologicals
Littleton, CO 80160
www.novusbio.com
1-888-506-6887
Catalog # NB200-532

Negative Control Serum: Normal Rabbit Serum Jackson Immunoresearch Laboratories, Inc. West Grove, PA 19390 www.jacksonimmuno.com 1-800-367-5296 Catalog # 011-000-001

Secondary Antibody: Donkey Anti-Rabbitt IgG (H+L) Biotin-SP-Conjugated Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 711-065-152

Label Complex: Vectastain Elite ABC Kit (Standard)

Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # PK-6100

Staining Procedure

Positive Control Tissue: Kidney (glomeruli and endothelial cells in the medulla)

Stain Localization: Cytoplasmic

1. Deparaffinize and hydrate slides through the following solutions:

Solution	Repetitions	Time
Xylene	2 times	5 minutes
100% Ethanol	2 times	3 minutes
95% Ethanol	2 times	3 minutes
1X Wash Buffer	2 times	5 minutes

- 2. Quench endogenous peroxidase by placing the slides in 3% hydrogen peroxide for 15 minutes.
- 3. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.

1	Heat-Induced Epitope Retrieval Using The Decloaker
т.	Add 500 ml of distilled water to the pan inside the decloaker.
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	Place a full rack of slides into a Tissue Tek® container with 200 ml of 1X citrate buffer
	(Insert blank slides into any empty slots in the rack to ensure even heating of slides)
	Place the container stably inside the pan and decloak for 5 minutes. Maximum Pressure
	Depressurize for 10 minutes.
	Remove pan top and cool for 10 minutes. <i>Temperature Before Cooling Slides</i>
	Rinse the slides in 2 changes of distilled water for 3 minutes each time.
5.	Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.
6.	Block with 10% Normal Donkey Serum for 20 minutes at room temperature.
	Lot # Date Reconstituted

DO NOT RIN	SE SLIDES. CONTINUE TO) AVIDIN-BIOTIN	BLOCK.
7. Avidin / Biotir	Blocking Kit		
Lot #	Exp Date	New Kit:	yes / no
Apply avidin b	lock for 15 minutes at room to	emperature.	
Quick rinse in	1X Wash Buffer.		
Apply biotin b	lock for 15 minutes at room to	emperature.	

DO NOT RINSE SECTIONS WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY. ONLY WIPE EXCESS BLOCK.

8. Apply primary antibody at a 1:750 dilution, and incubate for 1 hour at room temperature. Lot # Exp Date
For negative control slides, dilute the protein concentration of the normal rabbit serum to match that of the primary antibody. Make a 1:750 dilution from this normalized serum, and apply to the slides. Incubate for 1 hour at room temperature. Lot # Date Reconstituted
9. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
 Apply the donkey anti-rabbit secondary antibody at a 1:500 dilution, and incubate for 30 minutes at room temperature. Lot # Date Reconstituted
11. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
12. Apply the label complex from the Standard Elite Kit, and incubate for 30 minutes at room temperature. (Prepare at least 30 minutes prior to use.) Exp. Date New Kit: yes / no
13. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.
14. Apply the DAB chromagen, and incubate in the dark for 6 minutes at room temperature. (Add 1 drop of DAB per ml of substrate) Lot # Exp. Date New Kit: yes / no
15. Rinse the slides in tap water 3 minutes.
16. Counterstain with Harris Hematoxylin for 20 seconds.
17. Rinse the slides in tap water until water is clear.
18. Gently agitate slides in 1X Wash Buffer until they turn blue.
19. Dehydrate through the following solutions:
Solutions Repetitions Time
95% Ethanol 1 time 3 minutes
100% Ethanol 3 times 3 minutes
Xylene 2 times 5 minutes